## INTERNATIONAL SEARCH REPORT

international Application No F-CT/FR2004/002147

			1 120047 002147
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER B01D21/00 B01D21/02		
According to	o International Patent Classification (IPC) or to both national classif	ication and IPC	- ·
B. FIELDS	SEARCHED		
Minimum do IPC 7	ocumentation searched (classification system followed by classifica B01D C02F	ation symbols)	
	ation searched other than minimum documentation to the extent that		
	iata base consulted during the International search (name of data be ternal, WPI Data, PAJ	ase and, where practical, seatch te	rms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
X	FR 2 348 156 A (SEE EPURATION EN SA) 10 November 1977 (1977-11-10 page 1, line 28 - line 38; claim figures	1-10	
<b>X</b>	EP 0 423 964 A (INFILCO DEGREMON 24 April 1991 (1991-04-24) column 7, line 26 - line 43; cla figures 1,5-7	1-23	
X	US 3 399 135 A (RICE ARCHIE H ET 27 August 1968 (1968-08-27) column 4, line 55 - column 5, li figure 6	1	
X	US 6 171 483 B1 (EDEN ROBERT DAV 9 January 2001 (2001-01-09) column 3, line 44 - line 55; fig	1	
X Furth	ner documents are listed in the continuation of box C.	γ Patent family members ar	re listed in annex.
° Special cal	tegories of cited documents:		
*A* docume	ent defining the general state of the art which is not lered to be of particular relevance document but published on or after the International	<ul> <li>"T" later document published after or priority date and not in con- cited to understand the princip invention</li> <li>"X" document of particular relevant</li> </ul>	flict with the application but ple or theory underlying the ce; the claimed invention
"L" docume which i citation	and which may throw doubts on priority claim(s) or is cited to establish the publication date of another or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	"Y" document of particular relevan- cannot be considered to invol	on the document is taken alone ce; the claimed invention lve an inventive step when the
other n *P* docume			ne or more other such docu- ng obvious to a person skilled e patent family
Date of the a	actual completion of the international search	Date of mailing of the internation	
9	December 2004	16/12/2004	
Name and m	nalling address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Fourgeaud, D	ļ

## INTERNATIONAL SEARCH REPORT

Irremational Application No FR2004/002147

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Tau	
	Chancer of Goodinerit, with mulcation, where appropriate, of the relevant passages	Relevant to claim No.	
4	US 5 736 037 A (MEURER CHARLES LONNIE) 7 April 1998 (1998-04-07) claims; figures 1A,2A-2C	1-23	
	US 4 933 524 A (MEURER CHARLES L) 12 June 1990 (1990-06-12) claims 30-34,44; figures 2,38	1-23	
	·.		
}			

## INTERNATIONAL SEARCH REPORT

nformation on patent family members

International Application No FCT/FR2004/002147

					2004/00214/
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
FR 2348156	A	10-11-1977	BE FR OA	840717 A1 2348156 A1 5329 A	02-08-1976 10-11-1977 28-02-1981
EP 0423964	A	24-04-1991	CA EP ES US	1315703 C 0423964 A1 2043291 T3 5089136 A	06-04-1993 24-04-1991 16-12-1993 18-02-1992
US 3399135	A	27-08-1968	BE DE ES FR JP NO SE	717800 A 1784190 A1 355051 A1 1578228 A 51031454 B 123697 B 359450 B	16-12-1968 19-08-1971 16-11-1969 14-08-1969 07-09-1976 27-12-1971 03-09-1973
US 6171483	B1	09-01-2001	AU AU BR WO GB NO	731484 B2 1931997 A 9707537 A 9730268 A1 2328462 A ,B 983715 A	29-03-2001 02-09-1997 04-01-2000 21-08-1997 24-02-1999 13-10-1998
US 5736037	A	07-04-1998	NONE		
US 4933524	A	12-06-1990	US AT CA DE DE EP WO US	4865753 A 106263 T 1324768 C 68915752 D1 68915752 T2 0403590 A1 8912492 A1 5116443 A	12-09-1989 15-06-1994 30-11-1993 07-07-1994 19-01-1995 27-12-1990 28-12-1989 26-05-1992